

CRF Errors Corrected by the STIC System Branch

OIPE #4 6570

Serial Number: 10/092,263

CRF Processing Date: 6/27/2002  
 Edited by: [Signature]  
 Verified by: [Signature] (STIC staff)

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☐ Other: moved C1207 response down one line

Miner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.



OIEP

## RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/10/092,263

TIME: 19:27:09

Input Set : N:\Crf3\06112002\J092263.raw

Output Set: N:\CRF3\06272002\J092263.raw

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1 <110> APPLICANT: Bristol-Myers Squibb Company
3 <120> TITLE OF INVENTION: STEREOSELECTIVE REDUCTION OF SUBSTITUTED ACETOPHENONE
4 <130> FILE REFERENCE: CT-2657NP
5 <140> CURRENT APPLICATION NUMBER: US/10/092,263
6 <141> CURRENT FILING DATE: 2002-06-04
7 <160> NUMBER OF SEQ ID NOS: 8
8 <170> SOFTWARE: PatentIn version 3.0
10 <210> SEQ ID NO: 1
11 <211> LENGTH: 15
12 <212> TYPE: PRT
13 <213> ORGANISM: Pichia methanolica
14 <220> FEATURE:
15 <221> NAME/KEY: MISC_FEATURE
16 <222> LOCATION: (1)..(2)
17 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
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      20      1          5          10          15
22 <210> SEQ ID NO: 2
23 <211> LENGTH: 22
24 <212> TYPE: PRT
25 <213> ORGANISM: Pichia methanolica
26 <220> FEATURE:
27 <221> NAME/KEY: MISC_FEATURE
28 <222> LOCATION: (12)..(12)
29 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
30 <221> NAME/KEY: MISC_FEATURE
31 <222> LOCATION: (19)..(20)
32 <223> OTHER INFORMATION: wherein "X" equals any amino acid.
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W--> 34      Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Xaa Phe Val Val Leu
      35      1          5          10          15
W--> 36      Phe Asn Xaa Xaa Phe Pro
      37          20
39 <210> SEQ ID NO: 3
40 <211> LENGTH: 19
41 <212> TYPE: PRT
42 <213> ORGANISM: Pichia methanolica
43 <400> SEQUENCE: 3
44      Lys Val Pro Gln Glu Leu Tyr Thr Asn Leu Gly Ser Ser Gly Leu Gln
45      1          5          10          15
46      Ile Ser Lys
48 <210> SEQ ID NO: 4

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## RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/10/092,263

TIME: 19:27:09

Input Set : N:\Crf3\06112002\J092263.raw

Output Set: N:\CRF3\06272002\J092263.raw

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49 <211> LENGTH: 8
50 <212> TYPE: PRT
51 <213> ORGANISM: Pichia methanolica
52 <400> SEQUENCE: 4
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54     1             5
56 <210> SEQ ID NO: 5
57 <211> LENGTH: 30
58 <212> TYPE: DNA
59 <213> ORGANISM: Pichia methanolica
60 <400> SEQUENCE: 5
61     tgctcatgaa ttgggaaaaa gttccacaag           30
63 <210> SEQ ID NO: 6
64 <211> LENGTH: 31
65 <212> TYPE: DNA
66 <213> ORGANISM: Pichia methanolica
67 <400> SEQUENCE: 6
68     ctcggtatcct tataaaatta cagaatataa g           31
70 <210> SEQ ID NO: 7
71 <211> LENGTH: 1062
72 <212> TYPE: DNA
73 <213> ORGANISM: Pichia methanolica
74 <220> FEATURE:
75 <221> NAME/KEY: CDS
76 <222> LOCATION: (1)..(1059)
77 <400> SEQUENCE: 7
78     atg aat tgg gaa aaa gtt cca caa gaa tta tac act cgt ttg ggc tct           48
79     Met Asn Trp Glu Lys Val Pro Gln Glu Leu Tyr Thr Arg Leu Gly Ser
80     1             5             10             15
81     tca ggt cta caa atc tcc aag att att gtt ggg tgt atg tca ttc ggt           96
82     Ser Gly Leu Gln Ile Ser Lys Ile Ile Val Gly Cys Met Ser Phe Gly
83     20             25             30
84     acc aaa gca tgg gga ggt gat tgg gtt ttg gag gat gag gat gag atc           144
85     Thr Lys Ala Trp Gly Gly Asp Trp Val Leu Glu Asp Glu Asp Glu Ile
86     35             40             45
87     ttt gcg att atg aaa aag gct tat gat caa ggt atc aga act ttt gac           192
88     Phe Ala Ile Met Lys Lys Ala Tyr Asp Gln Gly Ile Arg Thr Phe Asp
89     50             55             60
90     act gct gac tct tat tct aat ggt gtt tct gaa aga ctc tta ggt aaa           240
91     Thr Ala Asp Ser Tyr Ser Asn Gly Val Ser Glu Arg Leu Leu Gly Lys
92     65             70             75             80
93     ttc att aga aag tac aac att gat aga tct aag ctt gtt att ttg act           288
94     Phe Ile Arg Lys Tyr Asn Ile Asp Arg Ser Lys Leu Val Ile Leu Thr
95     85             90             95
96     aag gtt ttt ttc cca gct cct gaa gaa tat gag tcg ttt agc ttc ttt           336
97     Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Ser Phe Ser Phe Phe
98     100            105            110
99     aat cat aat ttc cct ggt cac gag ttg gtc aac aga agt ggc tta tcg           384
100    Asn His Asn Phe Pro Gly His Glu Leu Val Asn Arg Ser Gly Leu Ser

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## RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/10/092,263

TIME: 19:27:09

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Output Set: N:\CRF3\06272002\J092263.raw

101	115	120	125	
102	aga aaa cat att ttg gac tct gct gct gcc tct gtt gag aga tta ggc	432		
103	Arg Lys His Ile Leu Asp Ser Ala Ala Ala Ser Val Glu Arg Leu Gly			
104	130	135	140	
105	acc tat atc gat gta cta caa att cat aga tat gat cca aat acc cct	480		
106	Thr Tyr Ile Asp Val Leu Gln Ile His Arg Tyr Asp Pro Asn Thr Pro			
107	145	150	155	160
108	gct gaa gaa acc atg gaa gct ttg aat gat tgt att aaa caa ggt tta	528		
109	Ala Glu Glu Thr Met Glu Ala Leu Asn Asp Cys Ile Lys Gln Gly Leu			
110	165	170	175	
111	acc aga tac att gga gca tct acc atg aga gcc tat caa ttc atc aag	576		
112	Thr Arg Tyr Ile Gly Ala Ser Thr Met Arg Ala Tyr Gln Phe Ile Lys			
113	180	185	190	
114	tat caa aac gtt gct gag aaa cat ggg tgg gca aag ttc atc tcg atg	624		
115	Tyr Gln Asn Val Ala Glu Lys His Gly Trp Ala Lys Phe Ile Ser Met			
116	195	200	205	
117	caa agc tac tac agt tta ctt tac cgt gaa gaa gaa gca gaa cta att	672		
118	Gln Ser Tyr Tyr Ser Leu Leu Tyr Arg Glu Glu Glu Ala Glu Leu Ile			
119	210	215	220	
120	gca tac tgt aat gaa act ggt gtt ggg tta atc cca tgg tca cca aac	720		
121	Ala Tyr Cys Asn Glu Thr Gly Val Gly Leu Ile Pro Trp Ser Pro Asn			
122	225	230	235	240
123	gct ggt gga ttc tta acc aga cca gta tcc aag caa gac act gcg aga	768		
124	Ala Gly Gly Phe Leu Thr Arg Pro Val Ser Lys Gln Asp Thr Ala Arg			
125	245	250	255	
126	agt gca agt ggg gct gct gcg tta tat ggt cta gaa cct ttc agt gag	816		
127	Ser Ala Ser Gly Ala Ala Ala Leu Tyr Gly Leu Glu Pro Phe Ser Glu			
128	260	265	270	
129	gct gat aag gct att att gac agg gtt gaa gag tta tca aag aaa aag	864		
130	Ala Asp Lys Ala Ile Ile Asp Arg Val Glu Glu Leu Ser Lys Lys Lys			
131	275	280	285	
132	gga gtt tct atg gct agt gtc gct tta gct tgg gtt att agt aag aac	912		
133	Gly Val Ser Met Ala Ser Val Ala Leu Ala Trp Val Ile Ser Lys Asn			
134	290	295	300	
135	agt tgg cca att att ggt ttc agt aag cct gga agg gtt gat gat gct	960		
136	Ser Trp Pro Ile Ile Gly Phe Ser Lys Pro Gly Arg Val Asp Asp Ala			
137	305	310	315	320
138	tta gat ggt ttc aag ttg aag cta acc gaa gag gac atc aaa ttc tta	1008		
139	Leu Asp Gly Phe Lys Leu Lys Leu Thr Glu Glu Asp Ile Lys Phe Leu			
140	325	330	335	
141	gaa gag cct tat gtt cca aaa cct ttg cct cgc tta tat tct gta att	1056		
142	Glu Glu Pro Tyr Val Pro Lys Pro Leu Pro Arg Leu Tyr Ser Val Ile			
143	340	345	350	
144	tta taa			1062
145	Leu			
147	<210> SEQ ID NO: 8			
148	<211> LENGTH: 353			
149	<212> TYPE: PRT			
150	<213> ORGANISM: Pichia methanolica			

## RAW SEQUENCE LISTING

DATE: 06/27/2002

PATENT APPLICATION: US/10/092,263

TIME: 19:27:09

Input Set : N:\Crf3\06112002\J092263.raw

Output Set: N:\CRF3\06272002\J092263.raw

151 &lt;400&gt; SEQUENCE: 8

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152 Met Asn Trp Glu Lys Val Pro Gln Glu Leu Tyr Thr Arg Leu Gly Ser
153 1 5 10 15
154 Ser Gly Leu Gln Ile Ser Lys Ile Ile Val Gly Cys Met Ser Phe Gly
155 20 25 30
156 Thr Lys Ala Trp Gly Gly Asp Trp Val Leu Glu Asp Glu Asp Glu Ile
157 35 40 45
158 Phe Ala Ile Met Lys Lys Ala Tyr Asp Gln Gly Ile Arg Thr Phe Asp
159 50 55 60
160 Thr Ala Asp Ser Tyr Ser Asn Gly Val Ser Glu Arg Leu Leu Gly Lys
161 65 70 75 80
162 Phe Ile Arg Lys Tyr Asn Ile Asp Arg Ser Lys Leu Val Ile Leu Thr
163 85 90 95
164 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Ser Phe Ser Phe Phe
165 100 105 110
166 Asn His Asn Phe Pro Gly His Glu Leu Val Asn Arg Ser Gly Leu Ser
167 115 120 125
168 Arg Lys His Ile Leu Asp Ser Ala Ala Ala Ser Val Glu Arg Leu Gly
169 130 135 140
170 Thr Tyr Ile Asp Val Leu Gln Ile His Arg Tyr Asp Pro Asn Thr Pro
171 145 150 155 160
172 Ala Glu Glu Thr Met Glu Ala Leu Asn Asp Cys Ile Lys Gln Gly Leu
173 165 170 175
174 Thr Arg Tyr Ile Gly Ala Ser Thr Met Arg Ala Tyr Gln Phe Ile Lys
175 180 185 190
176 Tyr Gln Asn Val Ala Glu Lys His Gly Trp Ala Lys Phe Ile Ser Met
177 195 200 205
178 Gln Ser Tyr Tyr Ser Leu Leu Tyr Arg Glu Glu Glu Ala Glu Leu Ile
179 210 215 220
180 Ala Tyr Cys Asn Glu Thr Gly Val Gly Leu Ile Pro Trp Ser Pro Asn
181 225 230 235 240
182 Ala Gly Gly Phe Leu Thr Arg Pro Val Ser Lys Gln Asp Thr Ala Arg
183 245 250 255
184 Ser Ala Ser Gly Ala Ala Ala Leu Tyr Gly Leu Glu Pro Phe Ser Glu
185 260 265 270
186 Ala Asp Lys Ala Ile Ile Asp Arg Val Glu Glu Leu Ser Lys Lys Lys
187 275 280 285
188 Gly Val Ser Met Ala Ser Val Ala Leu Ala Trp Val Ile Ser Lys Asn
189 290 295 300
190 Ser Trp Pro Ile Ile Gly Phe Ser Lys Pro Gly Arg Val Asp Asp Ala
191 305 310 315 320
192 Leu Asp Gly Phe Lys Leu Lys Leu Thr Glu Glu Asp Ile Lys Phe Leu
193 325 330 335
194 Glu Glu Pro Tyr Val Pro Lys Pro Leu Pro Arg Leu Tyr Ser Val Ile
195 340 345 350
196 Leu

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/092,263

DATE: 06/27/2002  
TIME: 19:27:10

Input Set : N:\Crf3\06112002\J092263.raw  
Output Set: N:\CRF3\06272002\J092263.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1,2  
Seq#:2; Xaa Pos. 12,19,20

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 3



OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002

TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

**Does Not Comply**  
**Corrected Diskette Needed**

3 <110> APPLICANT: Bristol-Myers Squibb Company  
 5 ~~STEREOSELECTIVE REDUCTION OF~~ SUBSTITUTED ACETOPHENONE  
 W--> 0 <120> TITLE INVENTION:   
 7 <130> FILE REFERENCE: CT-2657NP  
 9 <140> CURRENT APPLICATION NUMBER: US 10/092,263  
 C--> 10 <141> CURRENT FILING DATE: 2002-06-04  
 12 <160> NUMBER OF SEQ ID NOS: 8  
 14 <170> SOFTWARE: PatentIn version 3.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 15  
 18 <212> TYPE: PRT  
 19 <213> ORGANISM: Pichia methanolica  
 21 <220> FEATURE:  
 22 <221> NAME/KEY: MISC\_FEATURE  
 23 <222> LOCATION: (1)..(2)  
 24 <223> OTHER INFORMATION: wherein "X" equals any amino acid.  
 27 <400> SEQUENCE: 1  
 29 Xaa Xaa Tyr Arg Leu Val Arg Arg Gln Arg Ser Ala Asp Glu Gln  
 30 1 5 10 15  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 22  
 34 <212> TYPE: PRT  
 35 <213> ORGANISM: Pichia methanolica  
 37 <220> FEATURE:  
 38 <221> NAME/KEY: MISC\_FEATURE  
 39 <222> LOCATION: (12)..(12)  
 40 <223> OTHER INFORMATION: wherein "X" equals any amino acid.  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: MISC\_FEATURE  
 45 <222> LOCATION: (19)..(20)  
 46 <223> OTHER INFORMATION: wherein "X" equals any amino acid.  
 49 <400> SEQUENCE: 2  
 51 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Xaa Phe Val Val Leu  
 52 1 5 10 15  
 W--> 54 Phe Asn Xaa Xaa Phe Pro  
 55 20  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 19  
 59 <212> TYPE: PRT  
 60 <213> ORGANISM: Pichia methanolica  
 62 <400> SEQUENCE: 3  
 64 Lys Val Pro Gln Glu Leu Tyr Thr Asn Leu Gly Ser Ser Gly Leu Gln  
 65 1 5 10 15

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002

TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

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67 Ile Ser Lys
70 <210> SEQ ID NO: 4
71 <211> LENGTH: 8
72 <212> TYPE: PRT
73 <213> ORGANISM: Pichia methanolica
75 <400> SEQUENCE: 4
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78 1 5
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81 <211> LENGTH: 30
82 <212> TYPE: DNA
83 <213> ORGANISM: Pichia methanolica
85 <400> SEQUENCE: 5
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89 <210> SEQ ID NO: 6
90 <211> LENGTH: 31
91 <212> TYPE: DNA
92 <213> ORGANISM: Pichia methanolica
94 <400> SEQUENCE: 6
95 ctcggtatcct tataaaatta cagaatataa g 31
98 <210> SEQ ID NO: 7
99 <211> LENGTH: 1062
100 <212> TYPE: DNA
101 <213> ORGANISM: Pichia methanolica
103 <220> FEATURE:
104 <221> NAME/KEY: CDS
105 <222> LOCATION: (1)..(1059)
107 <400> SEQUENCE: 7
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110 1 5 10 15
112 tca ggt cta caa atc tcc aag att att gtt ggg tgt atg tca ttc ggt 96
113 Ser Gly Leu Gln Ile Ser Lys Ile Ile Val Gly Cys Met Ser Phe Gly
114 20 25 30
116 acc aaa gca tgg gga ggt gat tgg gtt ttg gag gat gag gat gag atc 144
117 Thr Lys Ala Trp Gly Gly Asp Trp Val Leu Glu Asp Glu Asp Glu Ile
118 35 40 45
120 ttt gcg att atg aaa aag gct tat gat caa ggt atc aga act ttt gac 192
121 Phe Ala Ile Met Lys Lys Ala Tyr Asp Gln Gly Ile Arg Thr Phe Asp
122 50 55 60
124 act gct gac tct tat tct aat ggt gtt tct gaa aga ctc tta ggt aaa 240
125 Thr Ala Asp Ser Tyr Ser Asn Gly Val Ser Glu Arg Leu Leu Gly Lys
126 65 70 75 80
128 ttc att aga aag tac aac att gat aga tct aag ctt gtt att ttg act 288
129 Phe Ile Arg Lys Tyr Asn Ile Asp Arg Ser Lys Leu Val Ile Leu Thr
130 85 90 95
132 aag gtt ttt ttc cca gct cct gaa gaa tat gag tcg ttt agc ttc ttt 336
133 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Ser Phe Ser Phe Phe
134 100 105 110

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002

TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

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136 aat cat aat ttc cct ggt cac gag ttg gtc aac aga agt ggc tta tcg      384
137 Asn His Asn Phe Pro Gly His Glu Leu Val Asn Arg Ser Gly Leu Ser
138      115      120      125
140 aga aaa cat att ttg gac tct gct gct gcc tct gtt gag aga tta ggc      432
141 Arg Lys His Ile Leu Asp Ser Ala Ala Ala Ser Val Glu Arg Leu Gly
142      130      135      140
144 acc tat atc gat gta cta caa att cat aga tat gat cca aat acc cct      480
145 Thr Tyr Ile Asp Val Leu Gln Ile His Arg Tyr Asp Pro Asn Thr Pro
146 145      150      155      160
148 gct gaa gaa acc atg gaa gct ttg aat gat tgt att aaa caa ggt tta      528
149 Ala Glu Glu Thr Met Glu Ala Leu Asn Asp Cys Ile Lys Gln Gly Leu
150      165      170      175
152 acc aga tac att gga gca tct acc atg aga gcc tat caa ttc atc aag      576
153 Thr Arg Tyr Ile Gly Ala Ser Thr Met Arg Ala Tyr Gln Phe Ile Lys
154      180      185      190
156 tat caa aac gtt gct gag aaa cat ggg tgg gca aag ttc atc tcg atg      624
157 Tyr Gln Asn Val Ala Glu Lys His Gly Trp Ala Lys Phe Ile Ser Met
158      195      200      205
160 caa agc tac tac agt tta ctt tac cgt gaa gaa gaa gca gaa cta att      672
161 Gln Ser Tyr Tyr Ser Leu Leu Tyr Arg Glu Glu Glu Ala Glu Leu Ile
162      210      215      220
164 gca tac tgt aat gaa act ggt gtt ggg tta atc cca tgg tca cca aac      720
165 Ala Tyr Cys Asn Glu Thr Gly Val Gly Leu Ile Pro Trp Ser Pro Asn
166 225      230      235      240
168 gct ggt gga ttc tta acc aga cca gta tcc aag caa gac act gcg aga      768
169 Ala Gly Gly Phe Leu Thr Arg Pro Val Ser Lys Gln Asp Thr Ala Arg
170      245      250      255
172 agt gca agt ggg gct gct gcg tta tat ggt cta gaa cct ttc agt gag      816
173 Ser Ala Ser Gly Ala Ala Ala Leu Tyr Gly Leu Glu Pro Phe Ser Glu
174      260      265      270
176 gct gat aag gct att att gac agg gtt gaa gag tta tca aag aaa aag      864
177 Ala Asp Lys Ala Ile Ile Asp Arg Val Glu Glu Leu Ser Lys Lys Lys
178      275      280      285
180 gga gtt tct atg gct agt gtc gct tta gct tgg gtt att agt aag aac      912
181 Gly Val Ser Met Ala Ser Val Ala Leu Ala Trp Val Ile Ser Lys Asn
182      290      295      300
184 agt tgg cca att att ggt ttc agt aag cct gga agg gtt gat gat gct      960
185 Ser Trp Pro Ile Ile Gly Phe Ser Lys Pro Gly Arg Val Asp Asp Ala
186 305      310      315      320
188 tta gat ggt ttc aag ttg aag cta acc gaa gag gac atc aaa ttc tta      1008
189 Leu Asp Gly Phe Lys Leu Lys Leu Thr Glu Glu Asp Ile Lys Phe Leu
190      325      330      335
192 gaa gag cct tat gtt cca aaa cct ttg cct cgc tta tat tct gta att      1056
193 Glu Glu Pro Tyr Val Pro Lys Pro Leu Pro Arg Leu Tyr Ser Val Ile
194      340      345      350
196 tta taa      1062
197 Leu
201 <210> SEQ ID NO: 8
202 <211> LENGTH: 353

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002

TIME: 13:57:16

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

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203 <212> TYPE: PRT
204 <213> ORGANISM: Pichia methanolica
206 <400> SEQUENCE: 8
208 Met Asn Trp Glu Lys Val Pro Gln Glu Leu Tyr Thr Arg Leu Gly Ser
209 1 5 10 15
212 Ser Gly Leu Gln Ile Ser Lys Ile Ile Val Gly Cys Met Ser Phe Gly
213 20 25 30
216 Thr Lys Ala Trp Gly Gly Asp Trp Val Leu Glu Asp Glu Asp Glu Ile
217 35 40 45
220 Phe Ala Ile Met Lys Lys Ala Tyr Asp Gln Gly Ile Arg Thr Phe Asp
221 50 55 60
224 Thr Ala Asp Ser Tyr Ser Asn Gly Val Ser Glu Arg Leu Leu Gly Lys
225 65 70 75 80
228 Phe Ile Arg Lys Tyr Asn Ile Asp Arg Ser Lys Leu Val Ile Leu Thr
229 85 90 95
232 Lys Val Phe Phe Pro Ala Pro Glu Glu Tyr Glu Ser Phe Ser Phe Phe
233 100 105 110
236 Asn His Asn Phe Pro Gly His Glu Leu Val Asn Arg Ser Gly Leu Ser
237 115 120 125
240 Arg Lys His Ile Leu Asp Ser Ala Ala Ala Ser Val Glu Arg Leu Gly
241 130 135 140
244 Thr Tyr Ile Asp Val Leu Gln Ile His Arg Tyr Asp Pro Asn Thr Pro
245 145 150 155 160
248 Ala Glu Glu Thr Met Glu Ala Leu Asn Asp Cys Ile Lys Gln Gly Leu
249 165 170 175
252 Thr Arg Tyr Ile Gly Ala Ser Thr Met Arg Ala Tyr Gln Phe Ile Lys
253 180 185 190
256 Tyr Gln Asn Val Ala Glu Lys His Gly Trp Ala Lys Phe Ile Ser Met
257 195 200 205
260 Gln Ser Tyr Tyr Ser Leu Leu Tyr Arg Glu Glu Glu Ala Glu Leu Ile
261 210 215 220
264 Ala Tyr Cys Asn Glu Thr Gly Val Gly Leu Ile Pro Trp Ser Pro Asn
265 225 230 235 240
268 Ala Gly Gly Phe Leu Thr Arg Pro Val Ser Lys Gln Asp Thr Ala Arg
269 245 250 255
272 Ser Ala Ser Gly Ala Ala Ala Leu Tyr Gly Leu Glu Pro Phe Ser Glu
273 260 265 270
276 Ala Asp Lys Ala Ile Ile Asp Arg Val Glu Glu Leu Ser Lys Lys Lys
277 275 280 285
280 Gly Val Ser Met Ala Ser Val Ala Leu Ala Trp Val Ile Ser Lys Asn
281 290 295 300
284 Ser Trp Pro Ile Ile Gly Phe Ser Lys Pro Gly Arg Val Asp Asp Ala
285 305 310 315 320
288 Leu Asp Gly Phe Lys Leu Lys Leu Thr Glu Glu Asp Ile Lys Phe Leu
289 325 330 335
292 Glu Glu Pro Tyr Val Pro Lys Pro Leu Pro Arg Leu Tyr Ser Val Ile
293 340 345 350
296 Leu

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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/092,263

DATE: 06/11/2002

TIME: 13:57:17

Input Set : A:\CT-2657.NP.ST25.txt

Output Set: N:\CRF3\06112002\J092263.raw

L:0 M:201 W: Mandatory field data missing, TITLE INVENTION  
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2